

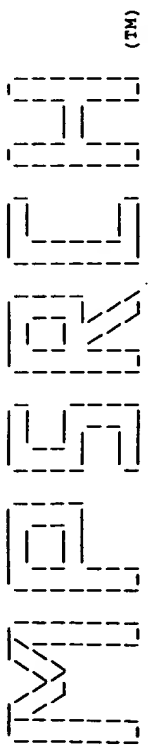
ALIGNMENT

24	1084	99.2	158	1	W31664	Leaderless protein FGF	5.12e-107
25	1084	99.2	210	1	R06685	Recombinant basic fibr	5.12e-107
26	1084	99.2	211	1	R07076	Extended recombinant b	5.12e-107
27	1084	99.2	410	1	W07586	E. coli codon optimise	5.12e-107
28	1084	99.2	410	1	R43957	Saporin/FGF fusion pro	5.12e-107
29	1084	99.2	410	1	R29218	bFGF-saporin fusion	5.12e-107
30	1084	99.2	410	1	W07592	Basic fibroblast growt	5.12e-107
31	1084	99.2	410	1	R70816	FGF-saporin fusion pro	5.12e-107
32	1084	99.2	410	1	R43958	Saporin/FGF fusion pr	5.12e-107
33	1084	99.2	410	1	R91067	bFGF-linker-saporin fu	5.12e-107
34	1084	99.2	417	1	R91070	Basic fibroblast growt	5.12e-107
35	1084	99.2	417	1	W07595	bFGF-linker-saporin fu	5.12e-107
36	1084	99.2	420	1	R91068	Basic fibroblast growt	5.12e-107
37	1084	99.2	420	1	W07593	Basic fibroblast growt	5.12e-107
38	1084	99.2	422	1	W07596	bFGF-linker-saporin fu	5.12e-107
39	1084	99.2	422	1	R91071	Basic fibroblast growt	5.12e-107
40	1084	99.2	423	1	W07599	Basic fibroblast growt	5.12e-107
41	1084	99.2	423	1	R91074	bFGF-linker-saporin fu	5.12e-107
42	1084	99.2	425	1	W07594	Basic fibroblast growt	5.12e-107
43	1084	99.2	432	1	W07594	Human fibroblast growt	5.12e-107
44	1084	99.2	433	1	W07598	Basic fibroblast growt	5.12e-107
45	1084	99.2	440	1	W07597	Basic fibroblast growt	5.12e-107

ALIGNMENTS

RESULT	1
ID	R27717 standard; protein: 146 AA.
AC	R27717;
DC	16-MAR-1993 (first entry)
DE	Mammalian basic FGF.
KW	Basic fibroblast growth factor; FGF; cation exchange HPLC;
KW	reverse-phase HPLC; homogeneity; recombinant DNA; disulphide bond;
KW	non-toxic salt; pharmaceutical; diagnostic; therapeutic;
KW	in vitro cell proliferation; nerve regeneration; wound healing.
OS	Bos taurus.
PN	US5155214-A.
PD	13-OCT-1992.
PF	05-MAR-1984; 586518.
PR	05-MAR-1984; US-586518.
PR	09-NOV-1984; US-670160.
PR	20-JUN-1985; US-747154.
PR	10-DEC-1986; US-940524.
PR	31-DEC-1987; US-139953.
PR	08-JAN-1990; US-462126.
PA	(SALK) SALK INST BIOLOGICAL STUDIES.
PI	Baird AJ, Bohlen P, Each FS, Gospodarowicz D, Ling NC;
PI	WPI; 92-365559/44.
PT	Purified mammalian basic fibroblast growth factor - produced by
PT	recombinant method, is useful e.g. for promoting wound healing
PS	Claim 1; Column 24; 24pp; English.
CC	This substantially pure protein was purified from partially purified
CC	basic fibroblast growth factor (FGF) by cation exchange HPLC and two
CC	reverse-phase HPLC steps. Having purified this protein to apparent
CC	homogeneity the amino acid sequence can be determined and pure basic
CC	FGF may be synthesised using recombinant DNA techniques (see also
CC	Q29741). This peptide is biologically active and exhibits either no
CC	or random disulphide bonding within the molecule. This protein, an
CC	analogue, a biologically active fragment, or a non-toxic salt of it
CC	may be used in a pharmaceutical composition for diagnostic or
CC	therapeutic uses. This may be used in in vitro cell proliferation
CC	procedures, eg. nerve regeneration and wound healing.
SQ	Sequence 146 AA;

Query Match	100.0%;	Score	1093;	DB	1;	Length	146;
Best Local Similarity	100.0%;	Pred.	No. 4.95e-108;				
Matches	146;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
Db	1	PALPEDGGGGAFFPGFKDPKRLKCKNGGFFLRHPDGVGVKREKSPHKLQLOAEER	60				
Qy	1	PALPEDGGGGAFFPGFKDPKRLKCKNGGFFLRHPDGVGVKREKSPHKLQLOAEER	60				
Db	61	GWISIKGVCANRYLAMKEDGRLLASKVCTDECFERLESNNYTRSKYSSWTVALKR	120				



(TM)

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm
Run on: Thu Apr 27 14:25:33 2000; MasPar time 9.69 Seconds
Tabular output not generated. 356,947 Million cell updates/sec

Title: >US-09-385-114-2
Description: (1-146) from US09385114.pep
Perfect Score: 1093
Sequence: 1 PALPEDGGGGAFFPGFKDPK.....GPKTGPQKAILFLPMSAKS 146

Scoring table: PAM 150
Gap 11

Searched: 188963 seqs, 23686106 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-geneseq35
1:geneseqp

Statistics: Mean 30.635; Variance 115.059; scale 0.266

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description	Pred. No.
1	1093	100.0	146	1	R27717	Mammalian basic FGF.
2	1093	100.0	146	1	P71145	Basic fibroblast growt
3	1093	100.0	146	1	R25943	Bovine basic FGF.
4	1093	100.0	147	1	P80085	Bovine basic fibroblas
5	1093	100.0	147	1	P80613	Sequence of manufactur
6	1093	100.0	155	1	W20029	Recombinant bovine bas
7	1093	100.0	155	1	P70671	Sequence of bovine bas
8	1084	99.2	146	1	P82579	Human basic fibroblast
9	1084	99.2	148	1	R22233	bFGF truncated at its
10	1084	99.2	153	1	R71414	Human basic fibroblast
11	1084	99.2	154	1	R89473	Human basic fibroblast
12	1084	99.2	155	1	W93380	18 kD isoform of human
13	1084	99.2	155	1	W71386	S5V mutant of fibrobla
14	1084	99.2	155	1	R33338	Human fibronectin amin
15	1084	99.2	155	1	R80777	Fibroblast growth fact
16	1084	99.2	155	1	W19595	Biologically active re
17	1084	99.2	155	1	R70204	Human bFGF.
18	1084	99.2	155	1	W71379	18 kDa form of fibrobl
19	1084	99.2	155	1	R70823	FGF-2.
20	1084	99.2	155	1	R40159	Human bFGF peptide fra
21	1084	99.2	155	1	R05314	Human basic fibroblast
22	1084	99.2	155	1	W35023	Fibroblast growth fact
23	1084	99.2	157	1	P71085	Sequence of human plac